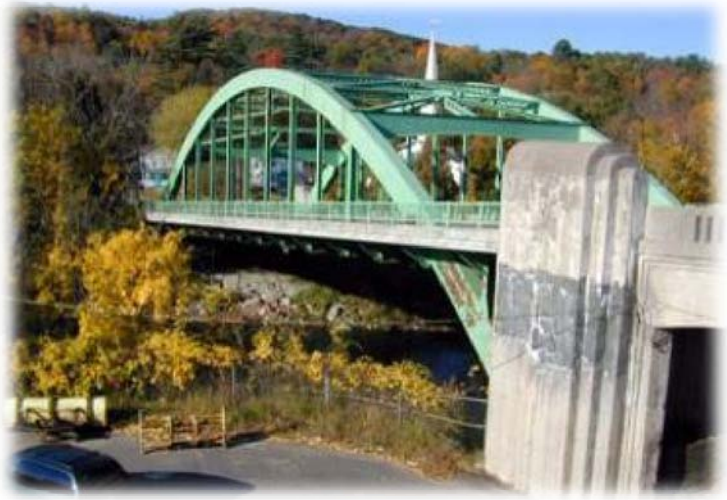
Accelerated Bridge Program

September 2010 Update

Executive Summary

As year two of the Accelerated Bridge Program draws to a close the program team is working diligently to manage the complex challenges of delivering over 200 bridge projects in eight years. The critical need for the ABP was demonstrated to the public this quarter when holes opened up on the deck of a bridge span on Route I-93 in Medford, backing up traffic for miles while emergency crews worked to repair the crumbling infrastructure. This is exactly the type of problem the ABP was created to address and yet, the $3 billion ABP investment will only address a portion of the structurally deficient bridges in the Commonwealth. The seven bridges located along the I-93 corridor in Medford have now been fast-tracked and added to the ABP. This aggressive design-build plan intends to use accelerated construction techniques to replace the seven bridges 14 new superstructures in one construction season. The ABP was designed to be flexible enough to make changes in response to new information. The team is closely monitoring the budget impact of adding urgent new projects and preparing for future contingencies.



Huntington - Route 112 over CSX Railroad and Westfield River Project Substantially Completed June 9th, 2010

Program expenditures to date are $305.7M and the number of structurally deficient bridges subject to the program has dropped to 487, a 10.3% reduction from the inception of the Program and a 7.4% reduction in this Program year. To date 24 projects are substantially complete and numerous preservation repairs are underway to continue to improve bridge health. The Middleborough/Raynham betterment project was completed ahead of schedule and under budget and the bridge replacement between Hanover and Hanson will be open this fall having cut one year out of the schedule. The two "heavy lift" accelerated construction projects are progressing well, with the Phillipston project slated to be completed next quarter, and the Wellesley project awarded and planned for July 4th, 2011 replacement. Notably, construction on Phase I of the Longfellow Bridge has begun and the long-awaited improvements to make the sidewalks comply with the Americans with Disabilities Act are expected to be complete in two weeks. Overall there are 59 projects currently in construction.

Longfellow Bridge Groundbreaking, June 21st, 2010

Projects are continuing to advance through the phases of design. Only six projects remain to be assigned to designers, 13 are being scoped, 90 are in design and 19 have been advertised but not yet awarded. A number of design challenges have resulted in shifting project schedules. The current projection is that 70% of projects are trending on-time and 80% on-budget against Program performance measures. Significantly the five mega-projects are at important stages of design that have resulted in schedule adjustments. Project recovery efforts are being deployed to examine the

best possible strategy to meet the Program's on-time and on-budget efficiency goals.

Increases in several project budgets and the addition of several new projects have resulted in the reduction of the previously unallocated contingency budget from $137 million to $11 million. The unallocated contingency was planned to enable the Program to respond to unforeseen circumstances, litigation costs, risk management, offer incentives on projects, etc. By assigning these funds to specific projects the Program has less flexibility in the future to accommodate new demands or recover from overages. At the same time, construction bids continue to come in below the office estimates. This is a trend across the country. If bids continue to trend low, the unexpended project budget can be returned to the unallocated contingency fund. At this stage in the Program, the team feels it is too early to either cut or add projects based on the budget information available. Nevertheless, the team is developing criteria for making adjustments to the list in the event the budget dictates that projects need to be added or removed from the plan.

Norwottuck Rail Trail Bridge over the Connecticut River in Northampton to be rehabilitated by the Dept. of Conservation and Recreation

During this quarter $34 million was transferred to the Department of Conservation and Recreation for improvements to pedestrian and recreational bridges that remained with DCR following the creation of MassDOT. Work is already underway to complete the painting of several bridges that cross Storrow Drive as part of the 100th Anniversary of the Esplanade. Other projects in the Charles River Basin are making great progress as well. The first major closing of the Craigie Bridge will take place in November and great care has been taken to coordinate the traffic management plan for this very busy bridge. Disruptions are inevitable, but full examination of all alternatives has been made with maximum input from the cities of Boston and Cambridge and area businesses.

Recent targeted recruitment campaigns are helping ABP reach its year two staffing goals. To date, the FTE level for the program is 292 with 9 pending appointments and 70 vacancies, of which 60 fall into the category of Engineering/Technical positions. Overall Minority workforce participation is 16.57 % and Women's participation 19.55%. Access and Opportunity goals continue to be achieved in M/W/DBE participation as well, with 16.6% participation against a goal of 14%. Overall, M/WBE competing as prime contractors have been award $28 million or 6% of the total value of the project work to date.

Finally, community outreach and communication efforts have continued in force. Since June the Longfellow Bridge Task Force has been meeting regularly gathering input from over 40 stakeholder groups and looking to build consensus around a plan that will safely serve all users of the bridge now and for the future. In addition, 14 public meetings have been held across the state this quarter each seeking to ensure the Commonwealth's bridges are designed and delivered in a customer-focused way.

Anne L. Collins
Accelerated Bridge Program

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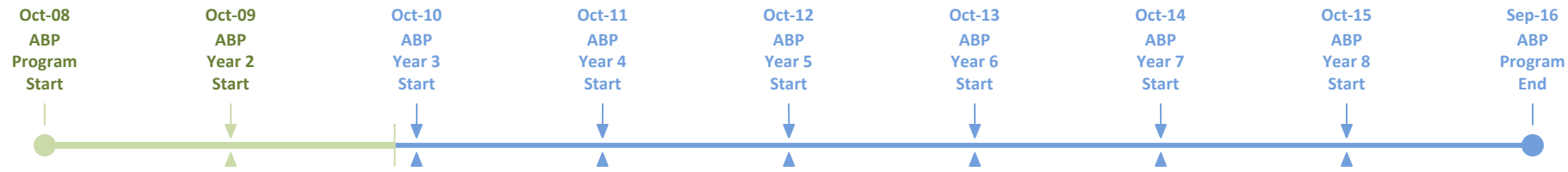
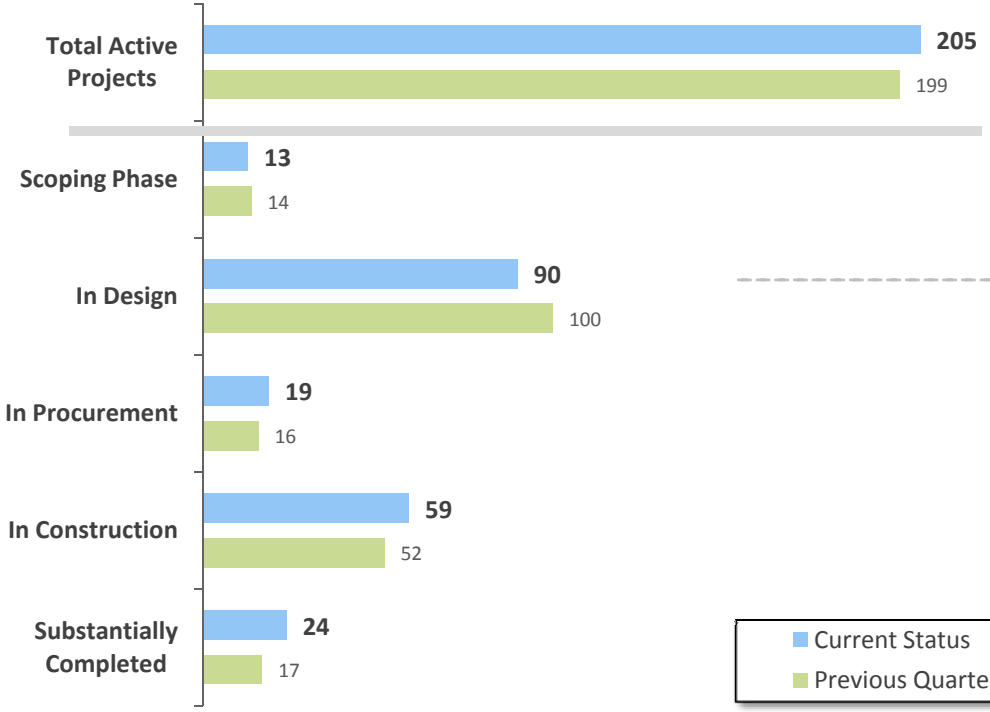
Program Schedule Status

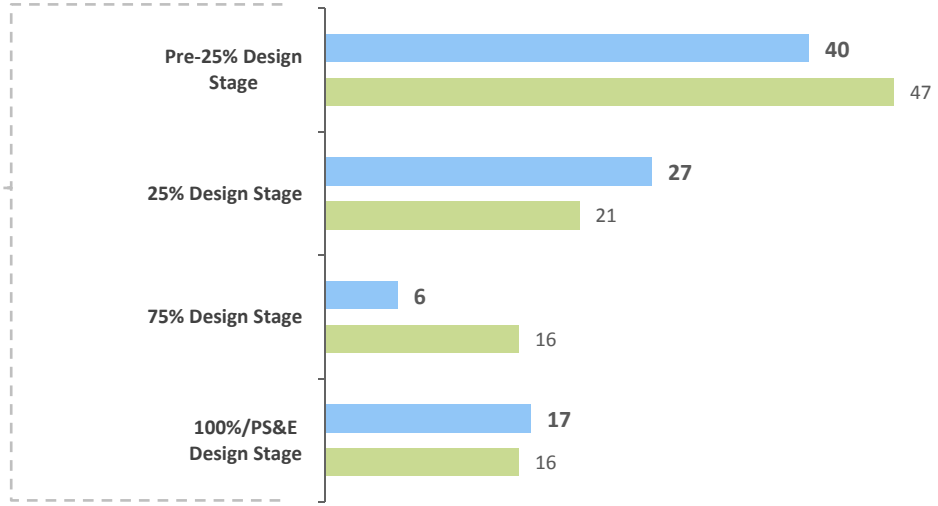
Program Timeline



Active Projects by Phase

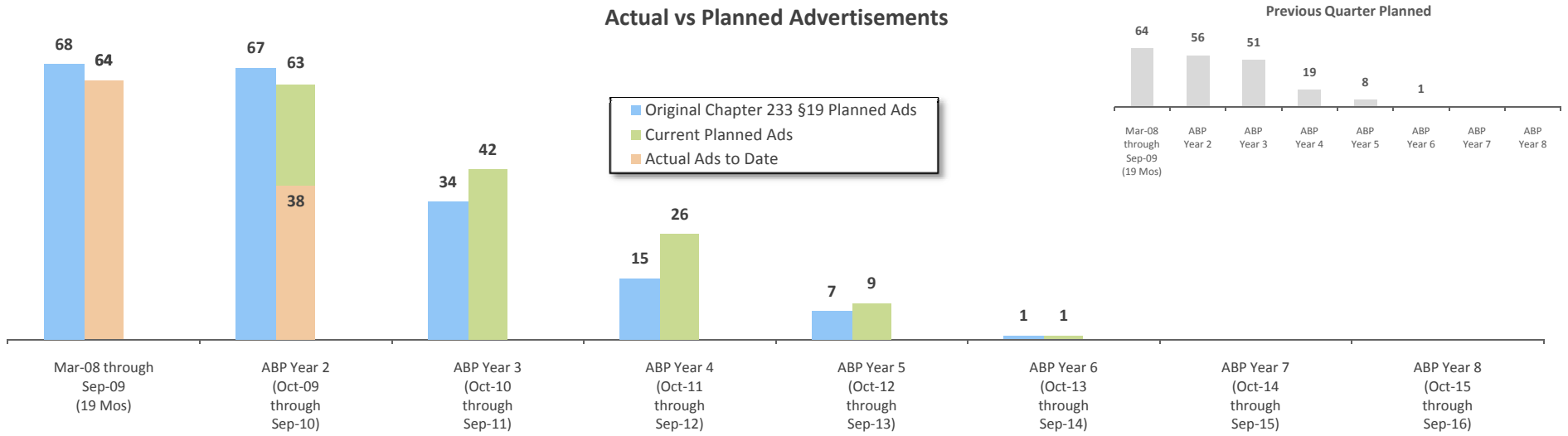


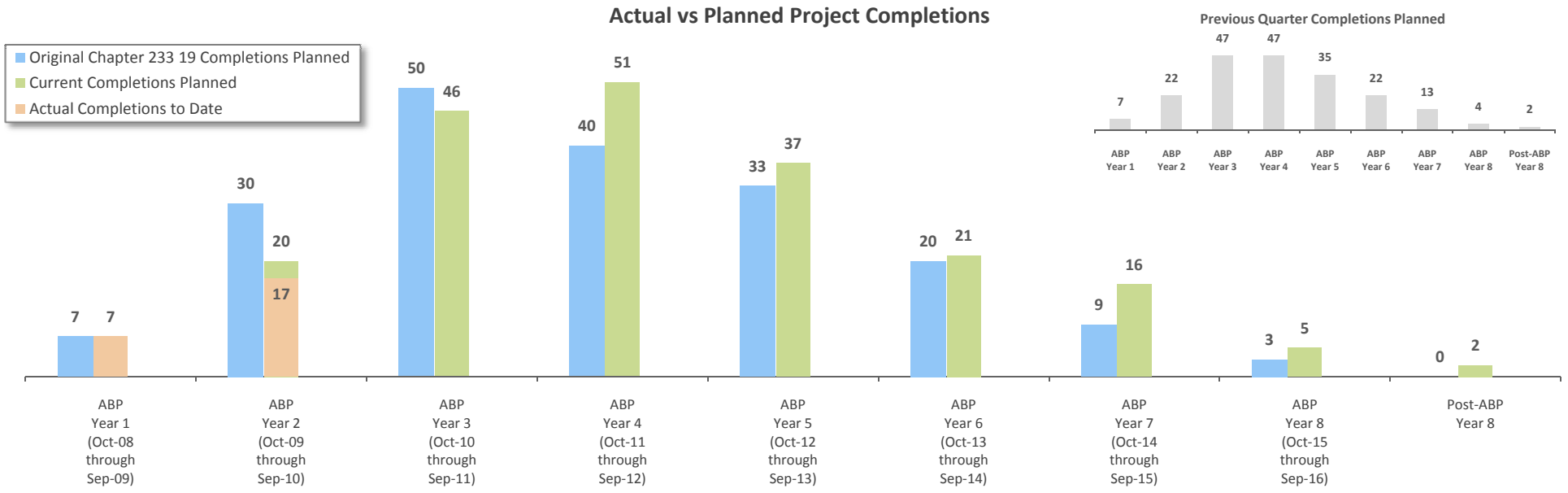
Projects in Design by Design Stage



*The original count of projects included in the Program was 192. The list of projects is continuously evaluated based on updated bridge priority. Projects may be added, transferred to other Programs (such as ARRA), or swapped with more pressing bridge repairs/replacements.

Program Schedule Status

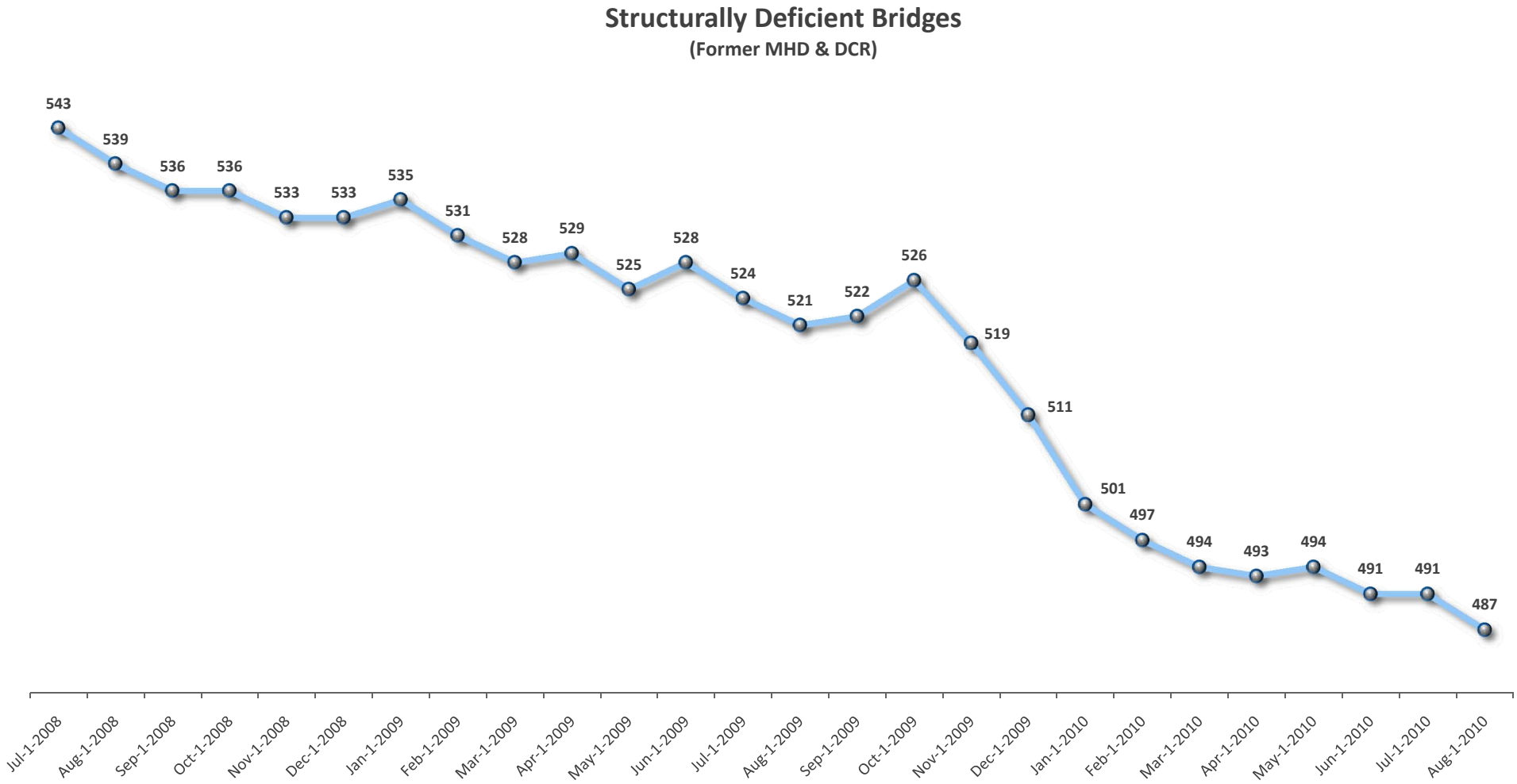




Data represented in this report is through August 2, 2010 unless otherwise indicated

Bridge Condition Status

A structurally deficient bridge is one for which the deck (riding surface), the superstructure (supports immediately beneath the riding surface), or the substructure (foundation and supporting posts and piers) are rated in condition 4 or less on a scale of 1-10; a bridge that has experienced deterioration significant enough to potentially reduce its load-carrying capacity. Structural deficiency does not necessarily imply that a bridge is unsafe.



Access and Opportunity Status

M/W/DBE participation to date is currently 16.6% and is on target to meet or exceed the overall 14% access and opportunity business participation goal for the Accelerated Bridge Program. The total value of open construction bids and awarded engineering design contracts is $474.6 million of which $78.7 million has been committed to businesses owned by minorities and women combined. During this period commitments to M/W/DBEs increased by 5.4%. Six commitments were made to M/WBEs valued at $4 million. To date women-owned businesses secured $44 million (or 9%) of the total commitments/awards and minority-owned businesses secured $34.6 million (or 7%).

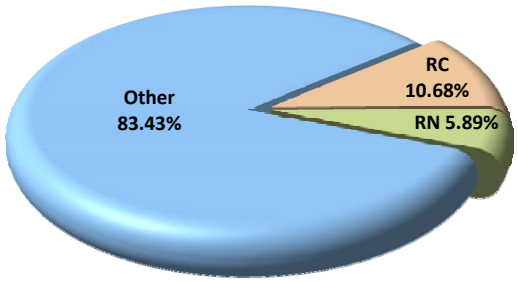
In construction, a total of $60.7 million (or 14.5%) has been committed to date to certified businesses owned by minorities and/or women (M/WBE). Of the total M/WBE participation, $32.9 million or 8% was committed to firms owned by women and $27.7 million or 6% was committed to firms owned by minorities.

There was no engineering/design activity reported during this period. A total of $17.9 million (or 32.4% of engineering/design contract) has been committed to date to M/WBEs. Of this total, $11 million or 20% went to businesses owned by women and $6.8 million or 12% went to firms owned by minorities.

Two prime contracts were awarded to M/WBEs during this period: The highest contract value awarded to a M/W/DBE was a commitment made to B& E Construction, a minority-owned business. Overall, M/WBEs competing as primes have been awarded a total of $28 million or 6% of the total value of project work to date.

Job Creation (EBO): The Job count for unique individuals employed by construction contractors on Accelerated Bridge Program projects is 1,783 for jobs created, and 3,052 for jobs retained. The total for unique individual construction jobs associated with the program is 4,835.

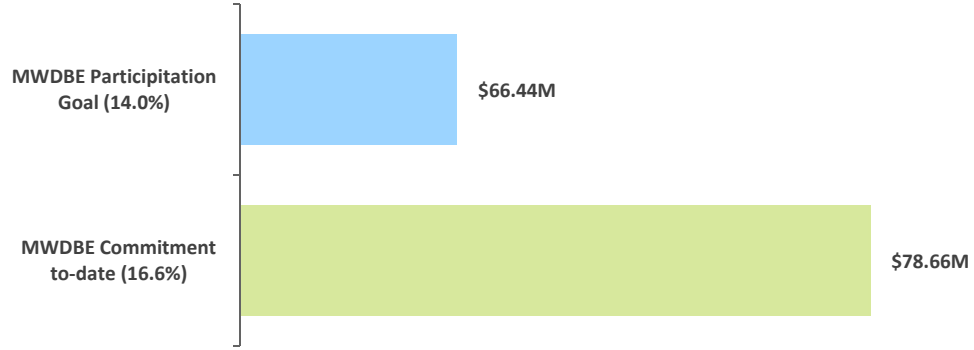
Project Commitment/Awards
Race Conscious and Race Neutral vs. Other



The Total MWDBE Commitment to Date is 16.6% (RC+RN)

This exceeds the 14% aspirational goal (10% RC and 4% RN) set for the ABP.

MWDBE Goal vs Commitment to Date



Laboratory of Innovation

I-93 Bridges Project in Medford

The bridges on Interstate I-93 in Medford are representative of why investing in and accelerating infrastructure repairs is so vital to the Commonwealth. Of Medford's I-93 bridges, there are seven whose condition warrants superstructure replacement. The piers and abutments are in good enough condition to remain, provided some repairs occur. These seven bridges will be replaced with 14 new superstructures to carry the massive amount of traffic into and out of Boston; up to 181,000 vehicles each day. Their condition and high level of use were demonstrated when two holes opened up on the bridge over Valley Street in early August; an event that showed how critical it is to improve the condition of these structures as soon as possible and as efficiently as possible. This project can be an excellent example of what we are able to accomplish at MassDOT by using new methods to accelerate procurement, streamline project management, and use innovative, rapid construction techniques.

MassDOT has hired CME Associates, a national expert in accelerated bridge construction and prefabricated bridge elements to conduct a feasibility study that will examine the most cost-effective means of addressing these structures with the least traffic impact. For this project, every day of design and every day of construction counts, so MassDOT's team is developing the best ways to manage its design and construction. Our goal is to begin and complete construction as soon as possible. Design/Build is the best delivery method for this project as it allows work and fabrication to overlap with design - especially advantageous for a multi-structure project.

To minimize the inevitable traffic impact of this project, MassDOT will markedly accelerate construction of the fourteen bridges. Although MassDOT's consultant is still finalizing its feasibility study, the project team expects to use cranes to install prefabricated replacement superstructures section by section over a series of short closures of one direction of I-93. Prefabrication of the replacement superstructure sections in a plant will increase their quality and keep an entire lengthy construction task from being performed in the roadway. Each of the 14 replacement superstructures can be erected in brief, strategically-scheduled closures of one side of I-93 with a cross-over providing bi-directional flow on the opposite side of the highway. By using prefabricated materials, design/build, and accelerated bridge construction methods, MassDOT can replace the superstructures during a single construction season instead of many years.

Charles River Basin Status

Accelerate Bridge Program (ABP) Projects Underway

A number of Charles River basin projects are currently under construction or actively in the design stage. Projects include:

BU Bridge: Phase 1 of the Rehabilitation of the Boston University Bridge is ongoing. Phase 1's focus is on the downstream side and over the last three months construction has been very active. On the Boston and Cambridge approaches, the sidewalk and curbing was formed and poured and the concrete deck paving was completed. On the main span of the bridge (within the steel arches) the bridge deck and sidewalk were demolished and structural steel repairs began. The parapet wall was formed and poured; the granite capstones cleaned and reset. Deleading, cleaning and painting has been completed for the full bridge width of the superstructure as well as the steel arch, above the Phase 1 limit of work. Drainage work began with the installation of bridge deck scuppers, water quality structures, and drainage pipes on the Cambridge side of the bridge. Finally, the removal, cleaning and resetting of the granite pylons has started.

As reported in the last quarterly report, the project is currently behind schedule to meet Milestone 1. MassDOT has received a recovery schedule from the contractor and has recently approved the schedule changes.

Craigie Dam and Drawbridge: With the major construction of the Craigie Dam complete, the project focus has been on surface and roadway improvements. The retaining wall (600 feet) and brick veneer between the Museum of Science and Land Boulevard reached substantial completion and traffic signal upgrades took place at the intersection of O'Brien Highway and Land Boulevard. MassDOT, the MBTA and contractors began coordination efforts between the Craigie project and the Science Park T-Station project that recently began.

With the major construction of the Craigie Drawbridge scheduled to begin this November, the fabrication of the bascule drawbridge has been closely monitored and is on schedule to be delivered between September and October.

A major focus for this project has been the Traffic Management Plan as it relates to the construction of the drawbridge. Over the past several months, MassDOT has been actively working with the City of Boston, the City of Cambridge and the State Police to identify the least disruptive plan to move traffic through Leverett Circle and over Land Boulevard. The Traffic Management Plan will be finalized in September. MassDOT will hold a public meeting in October to provide an update on the construction schedule and the Traffic Management Plan as it relates to detours and lane closures.

Charles River Basin Status

Picture furnished by MassBike

***Longfellow Bridge*:** In May, MassDOT chose to withdraw the Environmental Assessment (EA) from Federal Highway and convene a Task Force to develop alternatives for the design of the bridge cross-section that are context sensitive and provide safe and convenient access for all modes of transportation over the bridge. The Task Force had the first meeting on June 29th and has been meeting approximately two times each month since then, with the goal of a final meeting in the middle of October. In October the Task Force will present the Highway Administrator with a consensus recommendation for the final design of the cross-section to be part of the EA analysis. MassDOT is scheduled to submit a revised EA to Federal Highway the middle of November. As part of the Task Force process, the MassDOT design team led members on site walks over the bridge to discuss the project goals and to listen to their concerns related to access and connectivity. The outcome was very positive, bringing new thoughts about the final bridge design to the MassDOT team as well as Task Force members.

Construction related activities for the Early Action Contract began in early August with the temporary sidewalk improvement on the Cambridge-bound side; work is scheduled to be completed before the end of August. Once complete, the contractor will construct the temporary sidewalk improvements on the Boston-bound side. All sidewalk work is scheduled to be completed around Labor Day weekend.

Magazine Beach Pedestrian Bridge: The contractor mobilized and began site work, including the installation of the temporary sidewalks. MassDOT approved the contractor's demolition plan for the existing pedestrian bridge and demolition and heavy construction is expected to begin in the fall.

***River Street and Western Avenue Bridges*:** Over the last three months the design team completed field survey, traffic counts, and concrete sampling and testing. The DRAFT Bicycle and Pedestrian Underpass Feasibility Study was finished and submitted to MassDOT for review. In preparation for 25% design drawing submittal, a Conceptual Design Public Informational Meeting will be held in the fall.

Anderson Memorial Bridge: On July 22nd, a second Conceptual Design Public Informational Meeting was held to discuss the design options and bicycle and pedestrian connectivity concerns with the public. The DRAFT Bicycle and Pedestrian Underpass Feasibility Study was submitted to MassDOT for review. Draft 25% design drawings were submitted with final 25% design drawings expected in the fall.

Charles River Basin Status

Active Risk Management and Sequencing Contract (ARMS)

The ARMS team submitted to MassDOT, for review, the DRAFT Existing Origin-Destination Review and Construction Sequencing Evaluation Report (an update to the Phase 1 Sequencing Report prepared by Beta Group in August 2008) as well as the Existing Conditions and Model Development Methodology Report. Both reports were submitted to the City of Boston and the City of Cambridge for review. MassDOT will be meeting with both cities in the coming weeks and finalizing the two reports in the early fall.

Bike and Pedestrian Study for Pathways and Vehicular Bridges

The Halvorson Design Team finalized and submitted to MassDOT the Existing Conditions Report for the Charles River Basin as it relates to bicycle and pedestrian accommodations. The report was shared with DCR and posted on the ABP web site for public viewing. Spring bicycle and pedestrian counts were conducted throughout the basin and findings were incorporated into the Existing Conditions Report. MassDOT and the Halvorson Design Team worked to finalize the scope for the Connectivity Study of the linear path networks and bridge crossings. It is anticipated that the study will begin in the fall.

As part of the Longfellow Task Force process, the Halvorson Design Team has been observing and listening to the public's general concerns and comments for bicycle and pedestrian connectivity for use in future studies. The Team's suggestions will help MassDOT and DCR work towards consistent design ideas and implementation throughout the Basin.

Mega-Projects Status

Longfellow Bridge – Boston–Cambridge Rte 3/Cambridge Street over Charles River & Storrow/Memorial Drives
Projects 604361 (Prime Rehabilitation) and 604421 (Early Action)

Prelim. Construction Estimate 604361 – $267,500,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Estimate 604361 – $255,573,258
604421 – $19,876,400
Current Status 604361 – 25% design stage
604421 – In Construction
Schedule 604361 – Currently scheduled to advertise in **March 2012**
604421 – Notice-to-Proceed issued on **May 12, 2010**

Accomplishments/Expected within the next 3 months:

- Task Force established. Four meetings have been held. Next meeting scheduled for August 31, 2010.
- ENF submitted and a Secretary's Certificate, defining the project scope, has been filed according to the MEPA process.
- Negotiate Phase 2 contract scope & fee and obtain FHWA authorization
- Revise EA to incorporate work group comments and file with FHWA for review
- Designer to resubmit sketch plans for MassDOT review
- Update FDR to incorporate up to date traffic data

Fall River Bridge – Fall River - F-02-059 – State Route 79 Including all connecting Ramps, Bridge Rehabilitation
Projects 605223 (Mega-Project) and 605795 (Emergency Repair)

Prelim. Construction Estimate 605223 - $115,780,823 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Estimate 605223 - $170,000,000
605795 - $10,000,000
Current Status 605223 - Feasibility Study/Advisory Task Force Stage
605795 – In Construction
Schedule 605223 - Currently scheduled to advertise in **March 2012**
605795 – Construction NTP issued **July 12, 2010**

Accomplishments/Expected within the next 3 months:

- Public information meeting held June 16th and a follow-up seventh Task Force meeting held June 24th.
- Update Regional Traffic Models for conceptual alternatives.
- Prepare and File the ENF according to MEPA.
- Prepare and file an Interchange Justification Report (IJR) with FHWA
- Prepare and submit a NEPA Class of Action letter to FHWA
- Complete review of design team scope & fee for final design required for a D/B procurement.

Mega-Projects Status

Fore River Bridge – Quincy/Weymouth, Q-01-001=W-32-001, State Route 3A (Washington Street) over the Fore River Project 604382

Prelim. Construction Estimate $242,592,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Estimate $282,500,000
Current Status Pre-25% design stage
Schedule Currently scheduled to advertise in **October 2011**

Accomplishments/Expected within the next 3 months:

- Bridge permit application has been filed with US Coast Guard and is under review.
- Public Information Meeting held June 14th in Quincy
- Prepare and submit ACOE Water Quality Certificate
- Prepare and submit EA to FHWA for review
- Bridge Type Study, Functional Design Report and Draft Environmental Assessment have been submitted and are under final review by MassDOT.
- Value Engineering Study scheduled for the week of September 20, 2010
- A meeting was recently held at the request of Major Kay from the Town of Weymouth to discuss concerns raised by the Fore River Neighborhood Association. Discussions will be on-going.
- Next Public Information Meeting is anticipated for October 2010
- MassDOT has selected and publicly announced a preferred alternative to be progressed as part of the NEPA process (Project is MEPA exempt)

Shrewsbury – State Route 9 (Belmont Street) over Lake Quinsigamond, Bridge Replacement, Project 604729

Prelim. Construction Estimate $137,303,500 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Estimate $121,850,000
Current Status Pre-25% design stage
Schedule Currently scheduled to advertise in **July 2011**

Accomplishments/Expected within the next 3 months:

- Preliminary Structures Report/Preliminary Bridge Type submitted May 2010
- Geotechnical Exploration Borings are complete and will be incorporated into the Geotechnical Report
- On-going public participation with a total of six meetings to date
- A follow up meeting was held with the members of the Lake Quinsigamond Commission at their request on May 26, 2010
- Section 106 informational meeting has been held with City of Worcester Historical Commission on July 22, 2010
- Prepare and submit Chapter 91 application
- Prepare and submit Section 4(f) application
- Prepare and submit ACOE Water Quality Certificate
- Filing of ENF on August 16, 2010
- Value Engineering Study scheduled for the week of August 23, 2010
- Section 106 informational meeting is scheduled with Shrewsbury Historical Commission for September 16, 2010. MassDOT to file letter of Adverse Affect with SHPO by end of September 2010
- NEPA Class of Action to be filed jointly with a Categorical Exclusion in October 2010

Mega-Projects Status

Whittier Bridge – Amesbury/Newburyport - Route I-95 over Merrimack River & Evans Place, Bridge Replacement, Project 601096

Prelim. Construction Estimate $285,000,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Estimate $285,000,000
Current Status Pre-25% design stage
Schedule Currently scheduled to advertise in **July 2012**

Accomplishments/Expected within the next 3 months:

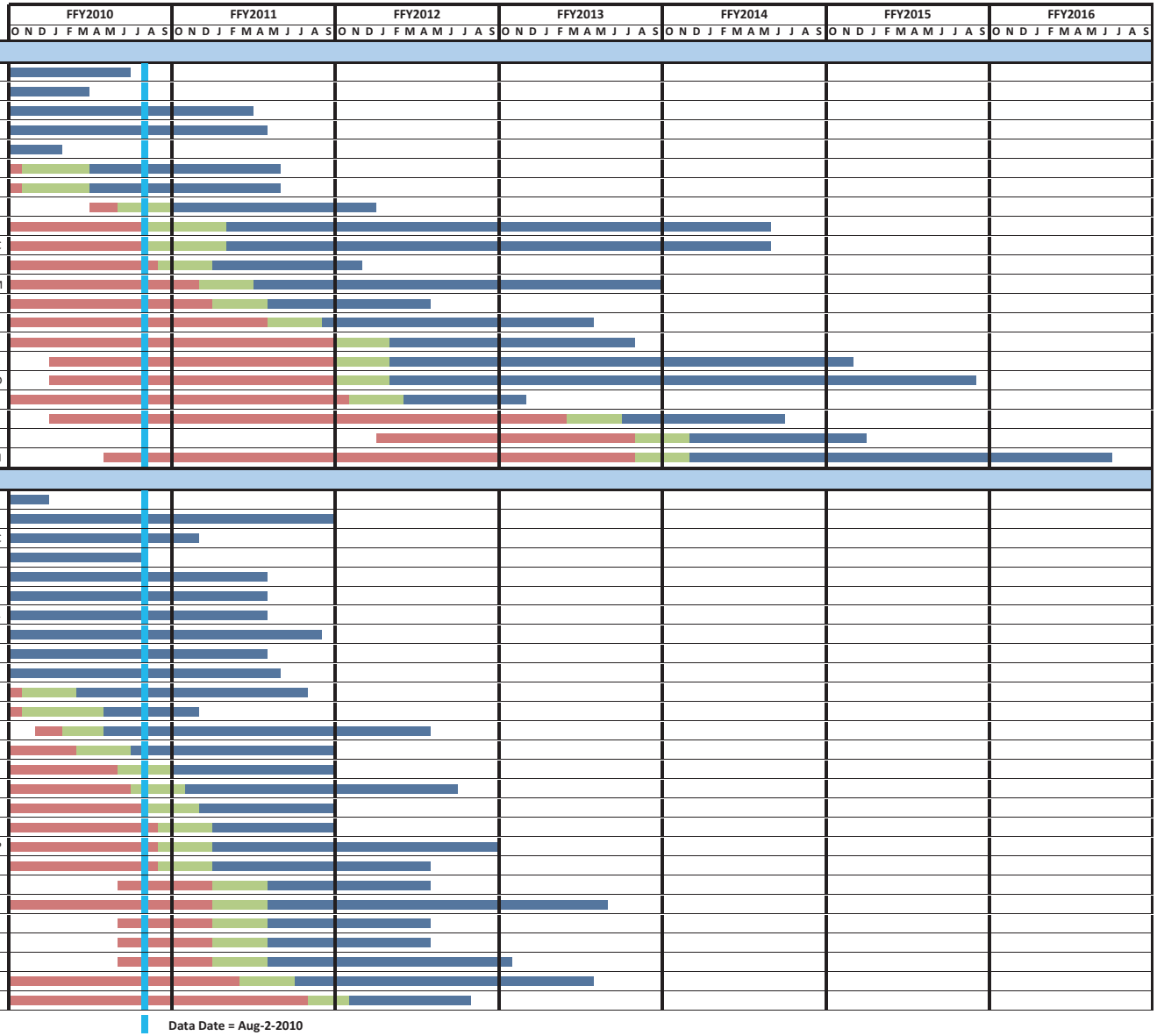
- A working group consisting of the CEO's and appointed representatives from Amesbury, Salisbury and Newburyport has been established. Four working group meetings have been conducted to date with the latest held on August 12, 2010
- Whittier Structural Rehabilitation Assessment Report
- Structural Assessment for Pine Hill, Evans Way, Rte 110, Rte 286
- Bridge Type Alternatives and Preliminary Whittier Type Study Report for main crossing
- Last public information meeting was held on August 12, 2010
- Section 106 information meetings held with local historical commissions for all three Towns
- Draft shared use path study submitted to MassDOT and working group on July 2010
- Continue advancement of type study matrix and finalize type study for main crossing
- Update DEIR/EA to incorporate MassDOT preferred alternative and shared use path and file with MEPA and FHWA
- Prepare Chapter 91 license application
- Submit draft Geotechnical report for Bridge Replacement
- File Section 4(f), DEP WQC and ACOE permits
- File US Coast Guard permit application
- Value Engineering study scheduled for week of October 8, 2010
- Submit type study for Pine Hill, Route 110, Route 286 and Evans Way bridges

Master Schedule

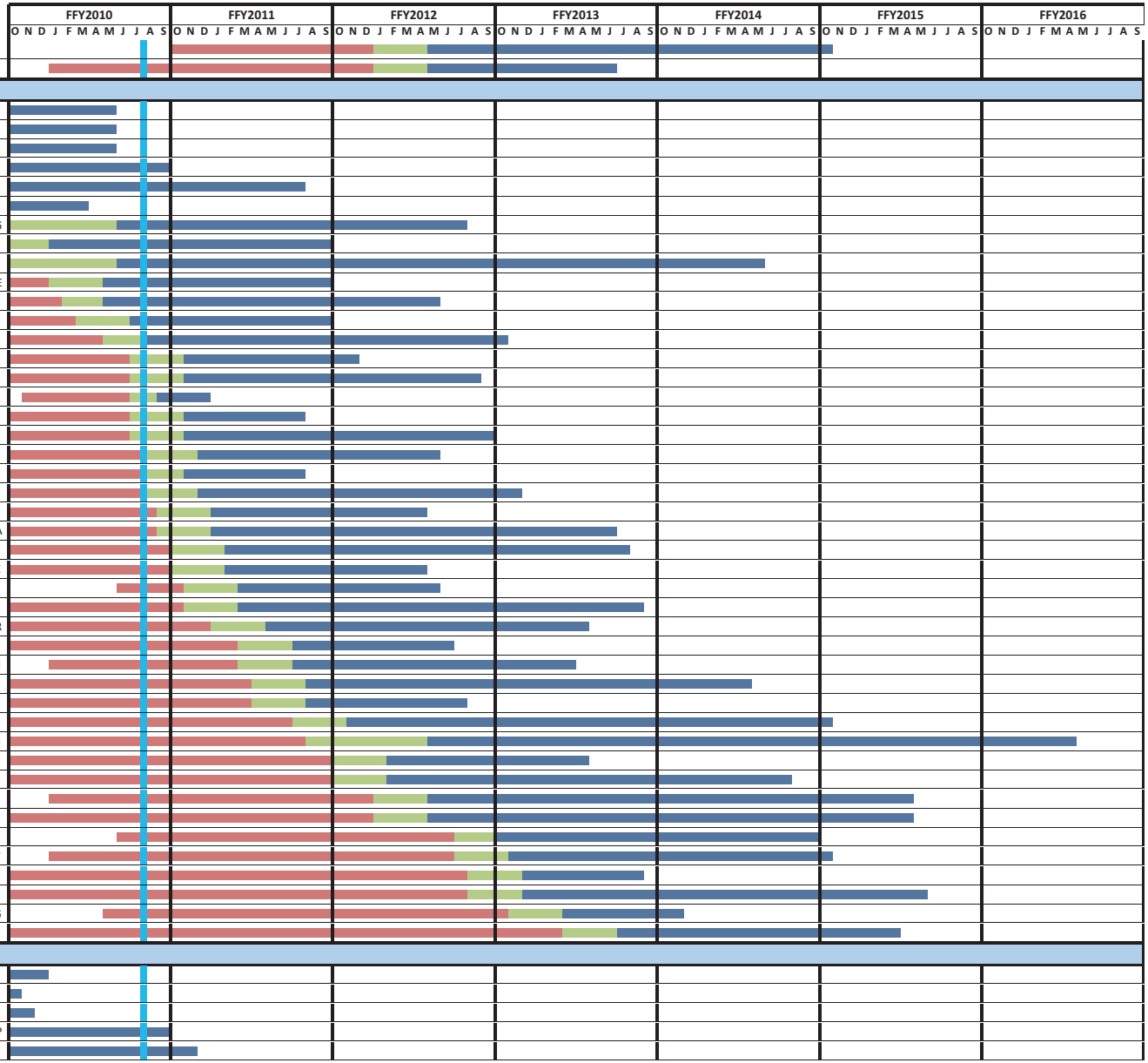
ABP Project Summary Schedule Report - Sep-2010 Quarterly Report

Grouped by District and Sorted by Advertisement Date

Project Number	Construct.Contract Number	Project Description
District 1		
605082	56608	HUNTINGTON- BRIDGE BETTERMENT, H-27-006, ROUTE 112 (WORTHINGON ROAD) OVER CSX
602349	56842	CHESTER- BRIDGE PRESERVATION, C-11-013, MAPLE STREET OVER THE WEST BRANCH OF THE
605262	56779	DISTRICT 1- SCHEDULED & EMERGENCY SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS
605078	57804	HAWLEY- BRIDGE DECK PRESERVATION, H-13-007, WEST HAWELY ROAD (ROUTE 8A) OVER CHI
605045	57889	BECKET- BRIDGE PRESERVATION, B-03-016, McNERNEY ROAD OVER SHAKER MILL BROOK
602640	61916	WINDSOR- BRIDGE REPLACEMENT, W-41-020, HIGH STREET HILL ROAD OVER WESTFIELD BRO
604166	62024	CHESHIRE- BRIDGE REPLACEMENT, C-10-007, HARBOR ROAD OVER HOOSIC RIVER
605464	64843	DISTRICT 1- SCHEDULED AND EMERGENCY REPAIRS (ABP-PR18)
605460		HUNTINGTON- BRIDGE REPLACEMENT, H-27-006, (CSX DESIGN/BUILD - ABP-CSX2)
605459		CHESTER- HINSDALE- RICHMOND- WEST SPRINGFIELD- BRIDGE RECONSTRUCTION, C-11-002, C
604051		COLRAIN- BRIDGE REPLACEMENT, C-18-023, ROUTE 112 (GRISWOLDVILLE ROAD) OVER GRISW
604050		SANDISFIELD- BRIDGE REPLACEMENT, S-03-004, ROUTE 8 & 57 OVER THE WEST BRANCH FARM
603701		DALTON- BRIDGE REPLACEMENT, D-01-012, CLEVELAND ROAD OVER WAHCONAH FALLS BROO
603646		WORTHINGTON- BRIDGE REPLACEMENT, W-45-006, ROUTE 112 OVER KEARNEY BROOK
604005		CONWAY- BRIDGE REPLACEMENT, C-20-003, NORTH POLAND ROAD OVER POLAND BROOK
605440		BECKET- CHESTER- BRIDGE REPLACEMENT, B-03-037 & C-11-033, US ROUTE 20 OVER CUSHMA
605439		BECKET- BRIDGE REPLACEMENT, B-03-008, B-03-010 & B-03-011, (US ROUTE 20) JACOB'S LADD
603704		CHARLEMONT- BRIDGE REPLACEMENT, C-05-036, MOUNTAIN ROAD OVER HARTWELL BROOK
602859		ALFORD- BRIDGE REPLACEMENT, A-06-003, ALFORD ROAD OVER THE SEEKONK BROOK
604669		WEST STOCKBRIDGE- BRIDGE REPLACEMENT, W-22-004, ROUTE 41 (GREAT BARRINGTON ROA
604516		SHEFFIELD- BRIDGE REPLACEMENT, S-10-023, STATE ROUTE 7A (ASHLEY FALLS ROAD) OVER TH
District 2		
605057	56338	CHICOPEE-WEST SPRINGFIELD- BRIDGE PRESERVATION, C-13-034=W-21-043, I-91 OVER CONN
604982	56365	AGAWAM- SPRINGFIELD- BRIDGE PRESERVATION (PAINTING), A-05-001=S-24-005, ROUTE 5 O
602570	56557	SPRINGFIELD- BRIDGE BETTERMENT, LONGHILL STREET (NB & SB) AND ROUTE 5 OVER I-91, INC
603794	57045	PETERSHAM- BRIDGE BETTERMENT, P-08-001, ROUTE 32 & 122 OVER THE EAST BRANCH OF T
605237	56995	DISTRICT 2- BRIDGE SUBSTRUCTURE REPAIRS (SECTION 2B)
605236	56993	DISTRICT 2- BRIDGE SUBSTRUCTURE REPAIRS (SECTION 2A)
603290	57676	SPRINGFIELD- BRIDGE PRESERVATION, S-24-068, LIBERTY STREET OVER ROUTE I-291 AND S-24
604933	57675	SOUTH HADLEY- BRIDGE PRESERVATION, S-18-015, ROUTE 202 OVER BARDWELL STREET & S-1
604218	57759	SPRINGFIELD- BRIDGE PRESERVATION, S-24-032, STATE STREET OVER ROOSEVELT AVENUE
604604	57890	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-91
604464	61793	EASTHAMPTON- BRIDGE REPLACEMENT, E-05-019, HENDRICK STREET OVER BROAD BROOK
603495	63235	PHILLIPSTON- BRIDGE REPLACEMENT, P-09-004, ROUTE 2 OVER ROUTE 2A (STATE ROAD)
605469	62560	DISTRICT 2- SCHEDULED AND EMERGENCY BRIDGE STRUCTURAL REPAIRS AT VARIOUS LOCATI
605466	63233	DISTRICT 2- INTERSTATE DECK REPAIRS (ABP-PR4)
605468	64519	DISTRICT 2- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR5)
602540		BRIMFIELD- BRIDGE REPLACEMENT, B-24-006, ST ROUTE 19 (WALES ROAD) OVER MILL BROOK
605473		DISTRICT 2- SCHEDULED & EMERGENCY REPAIRS (ABP-PR6)
601796		WEST BROOKFIELD- BRIDGE REPLACEMENT, W-19-006, LONG HILL ROAD OVER CSX RR
604912		ATHOL- BRIDGE PRESERVATION, A-15-033, A-15-034, ROUTE 2 OVER SOUTH ATHOL & WHITE P
601322		SOUTHWICK- BRIDGE REPLACEMENT, S-22-005, ROUTE 202/ROUTE 10 OVER JOHNSON BROOK
605472		DISTRICT 2- SCHEDULED AND EMERGENCY REPAIRS (ABP-PR21)
603180		CHICOPEE- BRIDGE REPLACEMENT, C-13-008, ROUTE 116 (SPRINGFIELD STREET) OVER THE CHI
605467		DISTRICT 2- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR20)
605465		DISTRICT 2- INTERSTATE DECK REPAIRS (ABP-PR19)
605470		DISTRICT 2- BRIDGE PRESERVATION (ABP-NFA7)
603735		HOLYOKE- BRIDGE REPLACEMENT, H-21-039, ROUTE 202 (BEECH STREET) OVER B&M R.R.
605084		BARRE- BRIDGE REPLACEMENT, B-02-005, ROUTE 122 OVER PRINCE RIVER

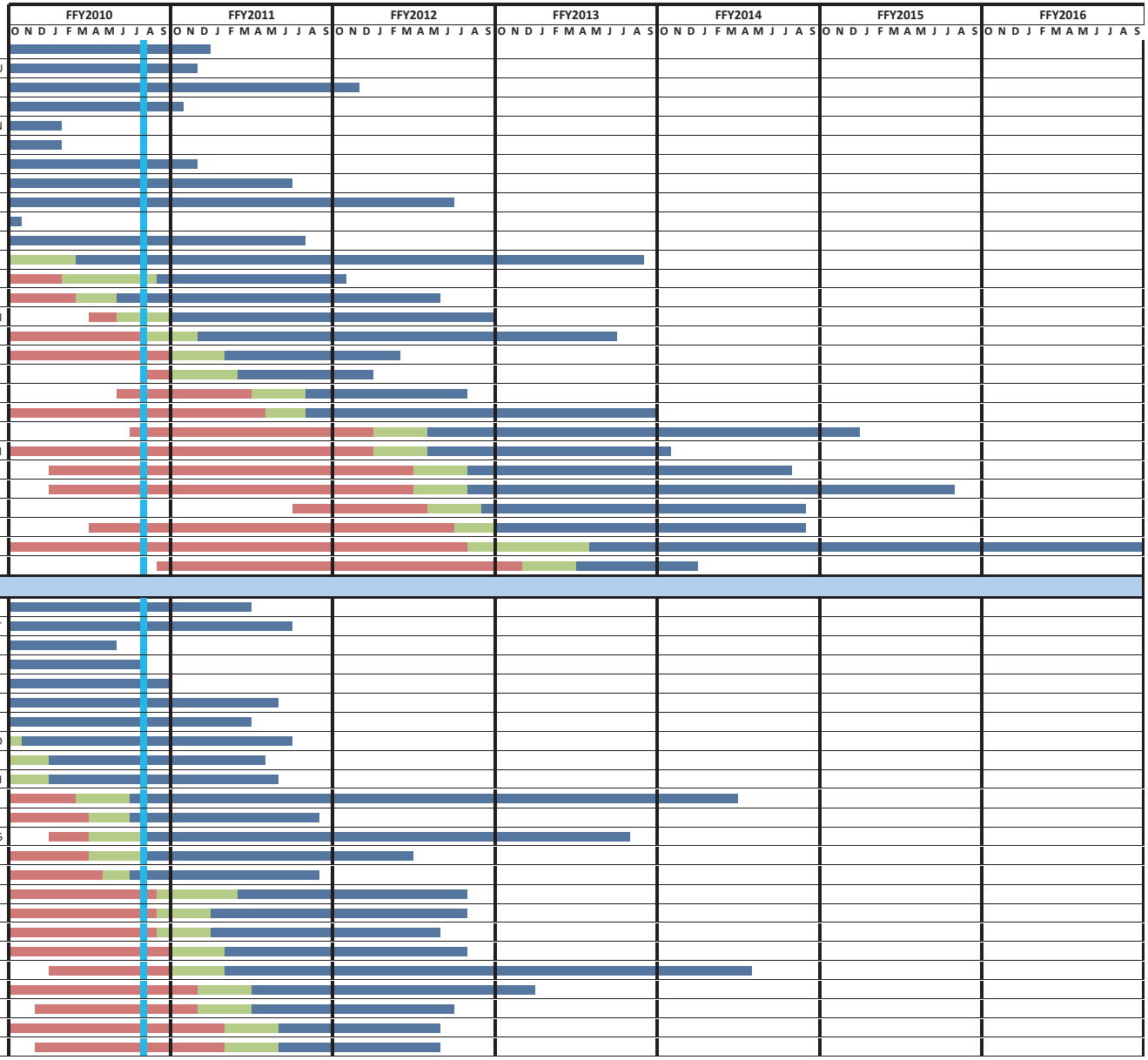


Project Number	Construct.Contract Number	Project Description
605353		WEST SPRINGFIELD- SUPERSTRUCTURE REPLACEMENT, W-21-025, SR 147 (WB/EB) (MEMORIA
604048		EASTHAMPTON- BRIDGE REPLACEMENT, E-05-006, ROUTE 10 (NORTHAMPTON STREET) OVER
District 3		
605241	56748	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA C)
605240	56746	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA B)
605234	56745	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA A)
605247	57162	DISTRICT 3- SCHEDULED & EMERGENCY BRIDGE DECK REPAIRS
605085	58007	MARLBOROUGH- BRIDGE PRESERVATION, M-06-016, I-290 (EB & WB) OVER I-495
604463	58177	ASHBURNHAM- BRIDGE REPLACEMENT, A-11-016, LAKE ROAD OVER WATATIC LAKE OUTLET
605461	62862	BROOKFIELD- CHARLTON- SPENCER- WEST BROOKFIELD- WESTBOROUGH- WORCESTER- BRIDG
603975	60857	GARDNER- BRIDGE REPLACEMENT, G-01-023, TRAVERS STREET OVER TRAVERS POND OUTLET
603321	62371	WESTMINSTER- BRIDGE REPLACEMENT, W-28-021, ROUTE 2 (EB & WB) OVER WEST MAIN STR
603350	62564	STURBRIDGE- BRIDGE REHABILITATION, S-30-004, HAYNES STREET OVER THE QUINEBAUG RIVE
603992	62672	SOUTHBRIDGE- BRIDGE RECONSTRUCTION, S-21-033, ALPINE DRIVE OVER LEBANON BROOK
605475	63234	DISTRICT 3- INTERSTATE DECK REPAIRS (ABP-PR7)
605477	63976	DISTRICT 3- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR8)
604252		SUTTON- BRIDGE RECONSTRUCTION, S-33-013, MAIN STREET OVER THE MUMFORD RIVER
603602		ASHLAND- BRIDGE REPLACEMENT, A-14-002, ROUTE 135 (UNION STREET) OVER THE SUDBURY
604634		FITCHBURG- BRIDGE REPLACEMENT, F-04-053, ASHBY WEST ROAD OVER THE SCOTT RESERVOI
604264		STERLING- BRIDGE REPLACEMENT, S-25-006, ROUTE 62 (PRINCETON ROAD) OVER THE STILLW
605337		SOUTHBOROUGH- BRIDGE PRESERVATON, S-20-018, I-495 (NB/SB) OVER HULTMAN AQUEDUC
603671		PEPPERELL- BRIDGE REPLACEMENT, P-06-003, MILL STREET OVER THE NISSITISSIT RIVER
604788		UXBRIDGE- BRIDGE REPLACEMENT, U-02-030, RIVER ROAD OVER THE IRONSTONE BROOK
601667		MILLIS- BRIDGE REPLACEMENT, M-23-006, PLEASANT STREET OVER CHARLES RIVER
603694		FRAMINGHAM- BRIDGE RECONSTRUCTION, F-07-063, DANFORTH STREET OVER THE SUDBURY
604514		UXBRIDGE- BRIDGE REPLACEMENT, U-02-001, STATE ROUTE 122 (MAIN STREET) OVER THE BLA
604506		NORTHBRIDGE- BRIDGE REPLACEMENT, N-21-002, ROUTE 122 (PROVIDENCE ROAD) OVER THE
604161		NORTHBRIDGE- BRIDGE REPLACEMENT, N-21-004, DOUGLAS ROAD OVER THE MUMFORD RIVE
605476		DISTRICT 3- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR23)
604690		WORCESTER- BRIDGE REHABILITATION/REPLACEMENT, W-44-010, (STATE ROUTE 12) WEBSTE
604032		DUDLEY- BRIDGE REPLACEMENT, D-12-010, WEST DUDLEY ROAD OVER THE QUINEBAUG RIVER
604046		FITCHBURG- BRIDGE REPLACEMENT, F-04-007, ROUTE 2A (KIMBALL STREET) OVER THE NASHU
605088		FITCHBURG- BRIDGE BETTERMENT, F-04-008, RIVER STREET (ST ROUTE 31) OVER NORTH NASH
602464		FRAMINGHAM- BRIDGE REPLACEMENTS, F-07-003 & F-07-065, WINTER STREET OVER SUDBUR
603793		HOPKINTON- SOUTHBOROUGH- BRIDGE REPLACEMENT, H-23-004=S-20-008, ROUTE 85 (RIVER
604841		LITTLETON- BRIDGE REPLACEMENT, L-13-021, TAYLOR STREET OVER I-495 (NB & SB), L-13-022,
604729		SHREWSBURY- WORCESTER- BRIDGE REHABILITATION, S-14-001=W-44-018, STATE ROUTE 9 (B
605338		SOUTHBRIDGE- BRIDGE DEMOLITION & ROAD RELOCATION, S-21-014, SR 169 (NORTH WOODS
604409		WORCESTER- BRIDGE PAINTING ON I-290, INCLUDES W-44-108, W-44-107, W-44-106, W-44-1
605964		MILLBURY- BRIDGE REPLACMENT, M-22-020, ROUTE 146 (NB & SB) OVER WEST MAIN STREET
603710		FRAMINGHAM- BRIDGE REPLACEMENT, F-07-015, WINTER STREET OVER MBTA, AMTRAK & CS
605942		BLACKSTONE- BRIDGE REPLACEMENT, B-13-004, ROUTE 122 (MAIN STREET) OVER THE BLACKS
605228		FRAMINGHAM- SUPERSTRUCTURE REPLACEMENT, F-07-001, ROUTE 9 (WORCESTER ROAD) OV
603003		EAST BROOKFIELD- BRIDGE REPLACEMENT, E-02-002, SHORE ROAD OVER EAST BROOKFIELD RI
604732		HUDSON- BRIDGE REPLACEMENT, H-25-003, STATE ROUTE 85 (WASHINGTON STREET) OVER T
605283		BROOKFIELD- BRIDGE REPLACEMENT, B-26-002, SR 148 (FISKDALE ROAD) OVER THE QUABOAG
603591		HOLDEN- BRIDGE REPLACEMENT, H-18-008, ROUTE 31 (WACHUSETT STREET) OVER THE QUIN
District 4		
605531	60259	EVERETT- MEDFORD- STRUCTURE MAINTENANCE, E-12-004=M-12-018, REVERE BEACH PARK
604932	56216	QUINCY- BRIDGE PRESERVATION, Q-01-009, HANCOCK STREET OVER SAGAMORE STREET (PHA
605225	56588	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (ESSEX COUNTY - CONTRACT #2
604981	56859	PEABODY- BRIDGE BETTERMENT, P-03-023 (RAMPS A&B) & P-03-024 (RAMPS G&F), I-95 RAMP
605224	56587	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (MIDDLESEX COUNTY - CONTRA



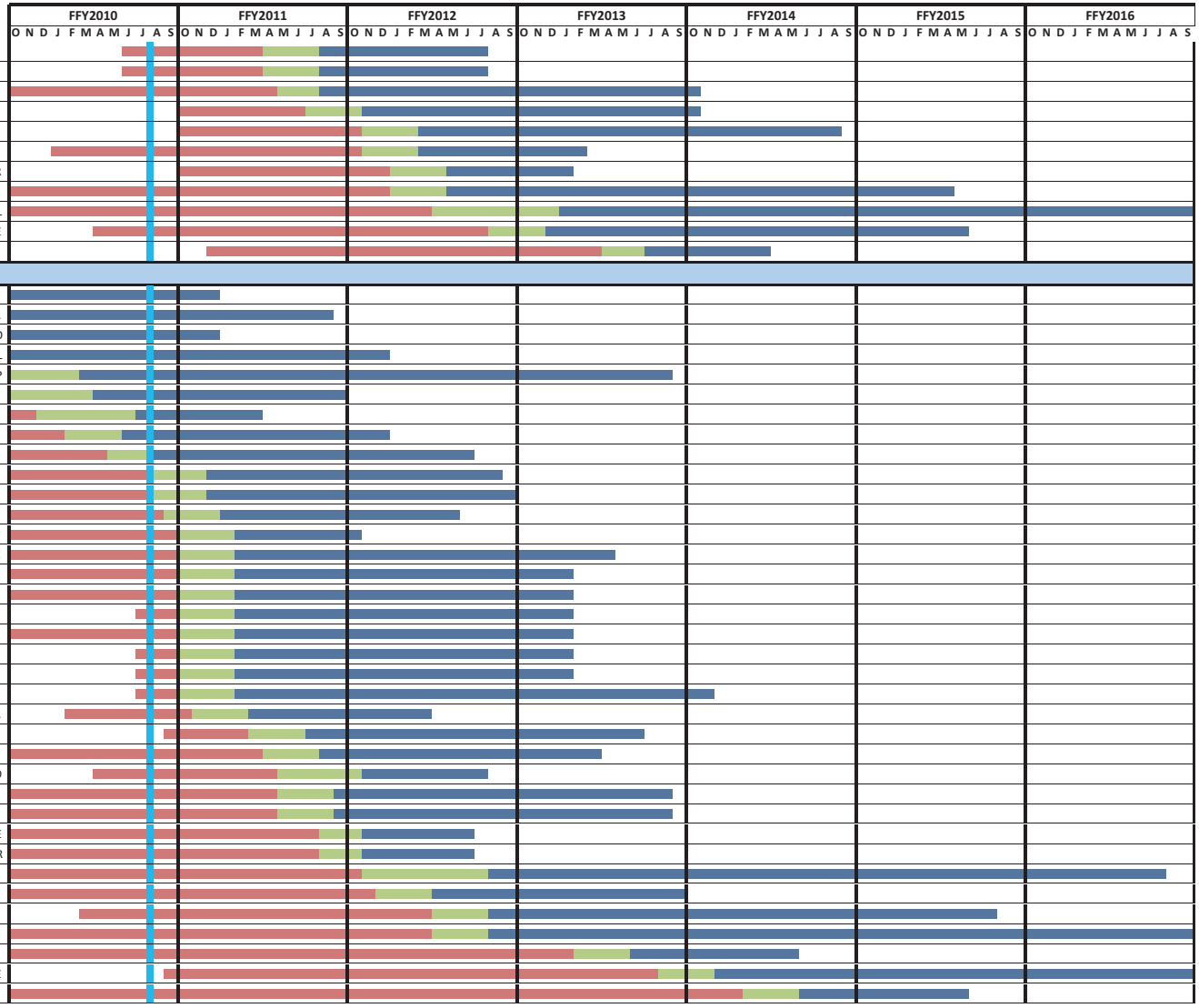
DESIGN PROCUREMENT CONSTRUCTION Data Date = Aug-2-2010

Project Number	Construct.Contract Number	Project Description
605226	56589	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (NORFOLK & SUFFOLK COUNTIE
605363	56750	DISTRICT 4- SCHEDULED & EMERGENCY SUBSTRUCTURE REPAIRS ON I-93 CORRIDOR & VARIOU
604749	57342	LAWRENCE- BRIDGE BETTERMENT, L-04-001, ROUTE 28 (BROADWAY) OVER THE MERRIMACK
605209	57758	MILTON- BRIDGE BETTERMENT, M-25-028, PONKAPOAG TRAIL OVER I-93/US-1
605360	57344	DISTRICT 4- SCHEDULED & EMERGENCY DECK AND JOINT REPAIRS (NORFOLK & SUFFOLK COUN
605359	57343	DISTRICT 4- SCHEDULED & EMERGENCY DECK AND JOINT REPAIRS (ESSEX & MIDDLESEX COUN
603244	57641	RANDOLPH- BRIDGE REPLACEMENT, R-01-012, MDC ACCESS ROAD OVER ROUTE 24 (NB & SB)
068611	58439	LOWELL- BRIDGE REHABILITATIONS ON ROUTE I-495, L-15-082, CONCORD RIVER, L-15-083, B&
604827	58185	LOWELL- BRIDGE BETTERMENT, L-15-059, L-15-060 & L-15-061, (HUNTS FALLS & ROTARY BRID
605514	60267	DOVER- SUBSTRUCTURE REPAIRS, D-10-007, CHENEY BRIDGE OVER CHARLES RIVER
605097	58658	NEWBURYPORT- SALISBURY- BRIDGE PRESERVATION (PAINTING), N-11-011=S-02-003, ROUTE
602543	61463	IPSWICH- BRIDGE REPLACEMENT, I-01-007, ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M
604007		WELLESLEY- BRIDGE REPLACEMENT, W-13-015, CEDAR STREET OVER ROUTE 9 WORCESTER ST
605490	60559	DISTRICT 4- SCHEDULED & EMERGENCY REPAIRS (ABP-PR12)
605483	64848	HAVERHILL- DECK REPLACEMENT, H-12-057, WARD HILL CONNECTOR OVER FERRY ROAD & RAI
603725		LOWELL- BRIDGE REPLACEMENT, L-15-072, LOWELL CONNECTOR (EB & WB) OVER PLAIN STRE
605484	63579	DISTRICT 4- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR11)
606255		MEDFORD: BRIDGE RECONSTRUCTIONS/REHABILITATIONS I-93 CORRIDOR
605485		DISTRICT 4- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR26)
061301		HAVERHILL- WEST NEWBURY- BRIDGE REHABILITATION, H-12-020=W-20-004, MAIN STREET O
604716		MEDFORD-BRIDGE REHABILITATION, M-12-002, MAIN STREET (STATE ROUTE 38 S) OVER MYS
601986		ANDOVER- BRIDGE REPLACEMENT, A-09-011, STATE ROUTE 28 (NORTH MAIN STREET) OVER M
605510		MEDFORD- DECK REPLACEMENT, M-12-017, REVERE BEACH PARKWAY OVER MBTA AND CORP
604660		EVERETT- MEDFORD- BRIDGE REPLACEMENT, E-12-004=M-12-018, REVERE BEACH PARKWAY (
605508		REVERE- SUBSTRUCTURE REPAIRS, R-05-016, REVERE BEACH PARKWAY OVER BLUE LINE AND S
605528		REVERE- STRUCTURE MAINTENANCE, R-05-001, REVERE BEACH PARKWAY OVER MBTA (WINT
601096		AMESBURY- NEWBURYPORT- SALISBURY - BRIDGE REPLACEMENTS ON ROUTE I-95, A-07-016=
603531		PEABODY- BRIDGE REPLACEMENT, P-03-013, HOWLEY STREET OVER NORTH RIVER
District 5		
604747	56580	BROCKTON- BRIDGE BETTERMENT, B-25-048, ROUTE 123 (BELMONT STREET) OVER ROUTE 24
601447	56415	FALL RIVER- SOMERSET- BRIDGE PAINTING, F-02-058=S-16-008, ROUTE I-195 OVER THE TAUNT
604703	56387	FALL RIVER- BRIDGE BETTERMENT, F-02-041, HIGHLAND AVENUE OVER ROUTE 24 (SB)
604704	56482	MIDDLEBOROUGH- RAYNHAM- BRIDGE BETTERMENT, M-18-041=R-02-017, I-495 (NB) OVER T
603595	56836	ATTLEBORO- BRIDGE PRESERVATION, A-16-042, I-95 (NB & SB) OVER WASHINGTON ST (US 1);
605133	57227	DISTRICT 5- EMERGENCY & NON-ROUTINE STEEL BEAM REPAIRS AT VARIOUS LOCATIONS
605361	57636	DISTRICT 5- SCHEDULED & EMERGENCY REPAIRS TO SUBSTRUCTURES AT VARIOUS LOCATIONS
601393	59675	BROCKTON- BRIDGE REPLACEMENT, B-25-060 (AVA), BARTLETT STREET OVER SALISBURY BROO
603417	60198	NORWOOD- BRIDGE REPLACEMENT, N-25-003, MORSE STREET OVER THE NEPONSET RIVER
604483	60310	HANOVER- HANSON- BRIDGE REPLACEMENT, H-06-003=H-07-003, BROADWAY OVER INDIAN H
605099	63039	FALL RIVER- SOMERSET- BRIDGE PRESERVATION, F-02-058, I-195 OVER THE COMB SR 79 & TA
605493	63317	DISTRICT 5- INTERSTATE DECK REPAIRS (ABP-PR13)
605795	63320	FALL RIVER- SCHEDULED & EMERGENCY DECK & STEEL REPAIRS ON ROUTE 79 VIADUCT & I-195
604419	63793	BROCKTON- BRIDGE REPLACEMENT, B-25-032, WHITE AVENUE OVER SALISBURY BROOK
605495	63700	DISTRICT 5- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR14)
603252		TAUNTON- SUPERSTRUCTURE REPLACEMENT, T-01-051, HOLLOWAY STREET OVER ROUTE 140
605272		BARNSTABLE- BRIDGE PRESERVATION, B-01-019, ROUTE 6 OVER IYANQUGH ROAD (ROUTE 132
604415		BRIDGEWATER- MIDDLEBOROUGH- BRIDGE REPLACEMENT, B-23-005=M-18-002, SUMMER ST
603983		ATTLEBORO- BRIDGE REHABILITATION, A-16-018, NORTH MAIN STREET OVER BUNGAY RIVER
604329		FAIRHAVEN- NEW BEDFORD- BRIDGE PRESERVATION, F-01-002=N-06-001 (EAST & WEST BRID
054400		ATTLEBORO- BRIDGE REPLACEMENT, A-16-025, OLIVE STREET OVER MBTA/AMTRAK
024090		KINGSTON- BRIDGE REPLACEMENT, K-01-002, ELM STREET OVER THE JONES RIVER
603892		DENNIS- BRIDGE REPLACEMENT, D-07-001, UPPER COUNTY ROAD OVER SWAN RIVER
605291		DENNIS- BRIDGE REPLACEMENT, D-07-006, MAIN STREET (SR 28) OVER WATER SWAN POND RI



DESIGN PROCUREMENT CONSTRUCTION Data Date = Aug-2-2010

Project Number	Construct.Contract Number	Project Description
605494		DISTRICT 5- INTERSTATE DECK REPAIRS (ABP-PR28)
605496		DISTRICT 5- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR29)
603670		BOURNE- WAREHAM- BRIDGE REPLACEMENT, B-17-017=W-06-012, US ROUTE 6 & STATE ROU
606139		FAIRHAVEN- BRIDGE REHABILITATION, F-01-014, I-195 OVER RIVER AVENUE
605327		RAYNHAM- BRIDGE DECK REPLACEMENT & PAINTING, R-02-012, SR 24 OVER THE TAUNTON RI
603576		TAUNTON- BRIDGE REPLACEMENT, T-01-021, BAY STREET OVER THE MILL RIVER
605344		TAUNTON- BRIDGE REPLACEMENT, T-01-015, WASHINGTON STREET (SR 140) OVER THE MILL R
603690		CHATHAM- BRIDGE REPLACEMENT, C-07-001, BRIDGE STREET OVER THE MITCHELL RIVER
605223		FALL RIVER- BRIDGE REHABILITATION, F-02-059, SR 79 (WESTERN EXPRESSWAY) INCLUDING AL
605343		SWANSEA- BRIDGE DECK REPLACEMENT & PAINTING, S-35-018, I-195 (EB/WB) OVER THE COLE
605351		WEST BRIDGEWATER- BRIDGE REHABILITATION, W-18-012, SR 106 (WEST CENTER STREET) OV
District 6		
605532	60266	DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS
604685	60262	BOSTON- CAMBRIDGE- DAM BRIDGE REHABILITATION, B-16-013=C-01-019, CHARLES RIVER DA
604683	60261	BOSTON- BRIDGE RECONSTRUCTION, B-16-196, MORRISSEY BOULEVARD OVER MOUNT VERNO
605506	60258	BOSTON-CAMBRIDGE: DECK REPLACEMENT, B-16-007=C-01-004, ROUTE 2 OVER SOLDIERS FIEL
605521	61371	BOSTON- FULL DECK REPLACEMENT, B-16-390, ROUTE 3A (MORRISSEY BOULEVARD) OVER NEP
605518	61941	CAMBRIDGE- BRIDGE REPLACEMENT, C-01-041, MAGAZINE BEACH PEDESTRIAN BRIDGE OVER
605526	63701	NEWTON- WELLESLEY- BRIDGE REHABILITATION (PED), N-12-086=W-13-026, LOWER FALLS AT
604421	63232	BOSTON- CAMBRIDGE- BRIDGE REHABILITATION, B-16-009=C-01-002, CAMBRIDGE STREET OV
605938	63978	QUINCY- BRIDGE REHABILITATION, Q-01-009, HANCOCK STREET OVER SAGAMORE STREET (PH
600776		WELLESLEY- BRIDGE REPLACEMENT, W-13-007, ROCKLAND STREET OVER CONRAIL
603713		DOVER- NEEDHAM- BRIDGE REPLACEMENT, D-10-004=N-04-007, WILLOW STREET OVER CHAR
603443		BOSTON- BRIDGE REPLACEMENT, B-16-167, RIVER STREET OVER MBTA
605515		LYNN- REVERE- ELECTRICAL/MECHANICAL REPLACEMENT ON L-18-015=R-05-08, ROUTE 1A OV
605520		ARLINGTON- SOMERVILLE- BRIDGE REHABILITATION, A-10-014, MYSTIC VALLEY PARKWAY OVE
605548		DISTRICT 6- SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS
605549		DISTRICT 6- SCHEDULED AND EMERGENCY STRUCTURAL REPAIRS AT VARIOUS LOCATIONS
606188		BOSTON- SUBSTRUCTURE REPAIR TO B-16-258 & B-16-458
605547		DISTRICT 6- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK AT VARIOUS LOCATIONS
606186		BRAINTREE- RANDOLPH- CLEAN & PAINT STRUCTURAL STEEL ON THREE BRIDGES: B-21-029, B-
606187		MILTON- CLEAN & PAINT STRUCTURAL STEEL ON TWO BRIDGES: M-25-019 & M-25-020
605170		NEWTON- WESTON- BRIDGE BETTERMENT, N-12-058=W-29-012, ROUTE 128 SERVICE ROAD O
603654		BOSTON- BRIDGE REPLACEMENT, B-16-163, MORTON STREET OVER THE MBTA & CSX RAILROA
604645		SOMERVILLE- BRIDGE REPLACEMENT, S-17-025, ROUTE 28 (McGRATH HIGHWAY) OVER GILMA
605517		BOSTON- CAMBRIDGE - BRIDGE REHABILITATION OF ANDERSON MEMORIAL BRIDGE, B-16-011
605516		BOSTON- DECK REPLACEMENT, B-16-381, HUGH FARREN PEDESTRIAN BRIDGE OVER OLD COLO
605527		BOSTON-CAMBRIDGE: BRIDGE REHABILITATION, B-16-010=C-01-006, WESTERN AVENUE OVER
605524		BOSTON-CAMBRIDGE- BRIDGE REHABILITATION, B-16-006=C-01-005, CAMBRIDGE STREET OVE
605512		NEWTON- DECK REPLACEMENT, N-12-078 = W-29-062 AUBURNDALE PEDESTRIAN BRIDGE OVE
605513		NEWTON- BRIDGE DECK REPLACEMENT, N-12-080, RIVERSIDE PEDESTRIAN BRIDGE OVER CHAR
604382		QUINCY- WEYMOUTH- BRIDGE REPLACEMENT, Q-01-001=W-32-001, STATE ROUTE 3A (WASHI
602219		SOMERVILLE- BRIDGE REHABILITATION, S-17-005, CROSS STREET OVER THE B&M RAILROAD
605511		BOSTON- DECK REPLACEMENT, B-16-367, CASEY OVERPASS OVER WASHINGTON STREET
604361		BOSTON- CAMBRIDGE- BRIDGE REHABILITATION, B-16-009=C-01-002, CAMBRIDGE STREET OV
605550		DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS
605519		SOMERVILLE- DECK & SUBSTRUCTURE REPAIRS, S-17-039, ROUTE 28 OVER WASHINGTON STRE
605551		DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS



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Glossary

Glossary of Acronyms

ABC	Accelerated Bridge Construction	FHWA	Federal Highway Administration
ABP	Accelerated Bridge Program	FFY	Federal Fiscal Year
ADT	Average Daily Traffic	FO	Functionally Obsolete
ANRAD	Abbreviated Notice of Resource Area Delineation	FRP	Fiber Reinforced Polymer
COA	Class of Action determination	MassDOT	Massachusetts Department of Transportation
ConCom	Conservation Commission	MEPA	Massachusetts Environmental Policy Act
DCR	Department of Conservation and Recreation	MWDBE	Minority and/or Woman-Owned Disadvantaged Business Enterprise
D-B (or DB or D/B)	Design-Build		
D-B-B (or DBB)	Design-Bid-Build	NEPA	National Environmental Policy Act
DBE	Disadvantaged Business Enterprise	NFA	Non Federal-Aid
EIR	Environmental Impact Report (MEPA)	PS&E	Plans, Specifications, and Estimates
EIS	Environmental Impact Study (NEPA)	SD	Structurally Deficient
ENF	Environmental Notification Form	SFY	State Fiscal Year
FA	Federal-aid	VE	Value Engineering
FDR	Functional Design Report	VECP	Value Engineering Cost Proposal

Glossary of Terms

Word, Term, Title, Expression, or Phrase	Definition/Description
Abbreviated Notice of Resource Area Delineation	The **Abbreviated Notice of Resource Area Delineation,** WPA Form 4A, **(ANRAD)** serves two purposes under the **Wetland Protection Act.** First, the **ANRAD** provides a procedure for an applicant to confirm the delineation of a Bordering Vegetated Wetlands (BVW). If an **ANRAD** is filed for a BVW delineation, confirmation of other resource areas may also be requested provided the other resource area boundaries are identified on the plans which accompany the BVW boundary delineation. The second purpose of the **ANRAD** is to serve as the application for Simplified Review for projects in the Buffer Zone.
Accelerated Bridge Construction	**Accelerated bridge construction (ABC)** is the application of **accelerated construction** techniques to bridge construction that can reduce durations from years to days, and in some cases, hours. **ABC** includes the use of pre-cast**,** pre-engineered, and pre-fabricated components and **heavy-lift** equipment that permits rapid installation and shorter disruptions to people and commerce. Pre-fabricated components produced off-site can be quickly assembled, and can reduce design time and cost, minimize forming, minimize lane closure time and/or possibly eliminate the need for a temporary bridge.

Word, Term, Title, Expression, or Phrase	Definition/Description
Average Daily Traffic	**Average daily traffic** or **ADT** is the standard measurement for vehicle traffic load on a section of road.
Bridge Type Study	The **Bridge Type Study** is the process by which the most appropriate structure type for a given location is determined, and it is a compilation of the necessary economic, aesthetic, and site evaluations which lead to that selection. A well conceived **Bridge Type Study** will; provide hydraulic and geotechnical considerations; consider the structure types feasible for the site parameters or environmental commitments; provide the reasoning for eliminating or developing particular alternatives; and provide cost estimates for all alternatives considered and the rationale for the selection of the structure type chosen.
Bundle or Bundling	**Bundling** is a practice in which agencies consolidate two or more projects into a single prime contract.
Class of Action Determination	A **Class of Action determination** is required for all Federal actions and establishes the level of environmental documentation required to comply with the **NEPA** and the regulations of the **Council on Environmental Quality (CEQ)**. There are three **classes of actions** defined which prescribe the level of documentation required in the **NEPA** process: Class I: **Environmental Impact Statements (EISs) -** for actions that significantly affect the environment as defined by **CEQ** regulations. Class II: **Categorical Exclusions (CEs)** - for actions that do not individually or cumulatively have a significant environmental effect. Class III: **Environmental Assessments (EAs)** - for actions in which the significance of the environmental impact is not clearly established. All actions that are not **Class I EISs** or **Class II CEs** are **Class III**.
Design-Bid-Build	**Design-Bid-Build** is a project delivery method in which the agency or owner contracts with separate entities for the design and the construction of a project. **Design-bid-build** is the traditional method for project delivery.
Design-Build	**Design-Build** is a method of project delivery in which the agency or owner executes a single contract with one entity for design and construction services. This system is used to minimize the project risk for an owner and to reduce the delivery schedule by overlapping the design phase and construction phase of a project.
Disadvantaged Business Enterprise	A for-profit small business concern that is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals and whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.
Federal-Aid	**Federal-aid** describes highway funds that are authorized by Congress to assist the States in providing for construction, reconstruction, and improvement of highways and bridges on eligible **Federal-aid** highway routes and for other special purpose programs and projects.
Federal Highway Administration	The **Federal Highway Administration (FHWA)** is a division of the **U.S. Department of Transportation (DOT)** that specializes in highway transportation.
Federal Fiscal Year (FFY)	The **Federal Fiscal Year** runs from October 1 of the prior year through September 30 of the next year.
Functional Design Report	A **functional design report** (**FDR**) is a necessary component for all transportation and safety improvement projects submitted to MassDOT at the 25% design stage, including mitigation projects developed through the **Massachusetts Environmental Protection Agency (MEPA)** process. Footprint bridge, roadway resurfacing, and maintenance projects are generally exempt from this requirement.

Word, Term, Title, Expression, or Phrase	Definition/Description
Functionally Obsolete	A bridge is **functionally obsolete** when it is inadequate to fulfill its current function, such as a four-lane road leading to a two-lane bridge.
Non Federal-Aid	**Non Federal-Aid** (**NFA**) is a Massachusetts term for funds for construction, reconstruction, and improvement projects on roads and bridges at the discretion of the state. The state share is 100 percent of the project costs. Also known as **non-Federal share, non-Federal match**
Plans, Specifications, and Estimates	The engineering design process produces contract plans, specifications, and cost estimates (**PS&E**). These documents contain all the construction details, contract provisions, permits, agreements, and certifications required to advertise, award, and administer a construction contract.
State Fiscal Year (SFY)	The **State Fiscal Year** for Massachusetts runs from July 1 of the prior year through June 30 of the next year.
Structurally Deficient	A **structurally deficient** bridge is one for which the deck (riding surface), the superstructure (supports immediately beneath the driving surface), or the substructure (foundation and supporting posts and piers) are rated in condition 4 or less on a scale of 1-10; a bridge that has experienced deterioration significant enough to potentially reduce its load-carrying capacity. **Structural deficiency** does not necessarily imply that a bridge is unsafe.
Value Engineering	**Value Engineering (VE)** is the systematic application of recognized techniques by a multi-disciplined team to identify the function of a product or service, establish a worth for that function, generate alternatives through the use of creative thinking, and provide the needed functions to accomplish the original purpose of the project, reliably, and at the lowest life-cycle cost without sacrificing safety, necessary quality, and environmental attributes of the project.
Value Engineering Cost Proposal	**Value Engineering Cost Proposals (VECP)** are post-award **value engineering** proposals made by construction contractors during the course of construction under a **value engineering** clause in the contract. The **Federal-aid** Policy Guide defines **VECPs** as "a construction contract provision which encourages the contractor to propose changes in the contract requirements which will accomplish the project's functional requirements at less cost, or improve value or service at no increase or a minor increase in cost. The net savings of each proposal is usually shared with the contractor at a stated reasonable rate."